

Title (en)  
ELECTRIC BRAKE DEVICE AND VEHICULAR BRAKE SYSTEM INCLUDING ELECTRIC BRAKE DEVICE

Title (de)  
ELEKTRISCHE BREMSVORRICHTUNG UND FAHRZEUGBREMSSYSTEM MIT ELEKTRISCHER BREMSVORRICHTUNG

Title (fr)  
DISPOSITIF DE FREIN ÉLECTRIQUE ET SYSTÈME DE FREINAGE DE VÉHICULE COMPRENANT UN DISPOSITIF DE FREIN ÉLECTRIQUE

Publication  
**EP 3483017 A1 20190515 (EN)**

Application  
**EP 18205452 A 20181109**

Priority  
JP 2017218258 A 20171113

Abstract (en)  
An electric brake device (34) to be mounted on a vehicle includes a rotating body, a friction member (126), an electric motor (18), a piston (42a; 86; 142), an operation conversion mechanism (150), an actuator (110), and a controller. The operation conversion mechanism (150) is configured to include a rotating member and a linear motion member. The controller is configured to selectively execute (a) a standby control of causing the linear motion member to stand by at a standby position where a clearance between the friction member (126) and the rotating body is not larger than a backlash between a male screw and a female screw, and (b) a backward movement control of moving the linear motion member backward to a backward movement position where the clearance is allowed to be equal to or more than the backlash, in a case where there is no braking force request for the electric brake device (34).

IPC 8 full level  
**B60T 13/74** (2006.01); **F16D 65/18** (2006.01)

CPC (source: CN EP KR RU US)  
**B60T 8/17** (2013.01 - KR); **B60T 13/12** (2013.01 - CN); **B60T 13/74** (2013.01 - CN); **B60T 13/741** (2013.01 - EP US);  
**F16D 55/226** (2013.01 - RU US); **F16D 65/0979** (2013.01 - KR); **F16D 65/14** (2013.01 - CN); **F16D 65/18** (2013.01 - EP KR RU US);  
**F16D 2121/04** (2013.01 - CN); **F16D 2121/24** (2013.01 - CN EP KR US); **F16D 2125/40** (2013.01 - US); **F16D 2125/50** (2013.01 - EP US)

Citation (applicant)  
• JP 2012240632 A 20121210 - ADVICS CO LTD  
• JP 2015048850 A 20150316 - ADVICS CO LTD

Citation (search report)  
• [XY] JP 2000055093 A 20000222 - TOKICO LTD  
• [YA] EP 1085240 A1 20010321 - NISSAN MOTOR [JP]  
• [YA] WO 2014115872 A1 20140731 - ADVICS CO LTD [JP], et al  
• [YA] JP 2014141214 A 20140807 - ADVICS CO LTD  
• [A] JP 2012002316 A 20120105 - ADVICS CO LTD

Cited by  
EP3838694A1; US11260842B2; EP3838694B1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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CN 109969156 B 20210914; JP 2019089390 A 20190613; JP 6927478 B2 20210901; KR 102148890 B1 20200827;  
KR 20190054959 A 20190522; RU 2699512 C1 20190905; US 11187291 B2 20211130; US 2019145475 A1 20190516

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**EP 18205452 A 20181109**; BR 102018073132 A 20181109; CN 201811338158 A 20181112; JP 2017218258 A 20171113;  
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